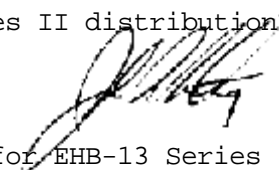


MEMORANDUM FOR: All NWS Regional Headquarters, Regional
Maintenance Specialists, Electronic Systems
Analysts, and Electronics Technicians (Engineering
Handbook (EHB)-13, Series II distribution)

FROM: W/OSO3 - John McNulty 

SUBJECT: Transmittal Memorandum for EHB-13 Series II,
Issuance 00-05

1. Material Transmitted:

Revised index pages for EHB-13 Series II, Advanced Interactive Processing System (AWIPS), Section 3.3, AWIPS Software Patch Modification Note 6: New WWA 4.3.1 Executables. Patch number: P426_TDL_A100069 (RC_APO69_Amend).

2. Summary:

AWIPS Software Patch Modification Note 6 provides instructions on installing a software patch to fix problems identified with R4.3.1 WWA software.

3. Effect on Other Instructions:

None.

AWIPS SOFTWARE PATCH MODIFICATION NOTE 6 (for Electronic Systems Analysts)

OSD: Jim Calkins

W/OSO321: FJZ

- SUBJECT** : New WWA 4.3.1 executables Patch number: P431_TDL_A100069 (RC_APO69_Amend)
- PURPOSE** : To fix problems identified with R4.3.1 WWA software.
- AFFECTED SITES** : All R4.3.1 WFOs and WWA users must install this patch.
- VERIFICATION STATEMENT** : The patch and installation procedures were tested and verified at the Weather Service Headquarter system, Cleveland, OH (CLE), Charleston, WV (RLX), and Albany, NY (ALY) WFOs.
- TIME REQUIRED** : Approximately 10 minutes
- SECURITY LEVEL** : root

BACKGROUND

Techniques Development Laboratory (TDL) has identified several problems/issues with the WWA software in R4.3.1. As a result, TDL has developed new versions of "wwa", "wwaPush", and "wwastmt_srv". The WWA fixes are as follows:

- C wwa S Formats the correct SPC watch number in SLS products generated via WWA.
- C wwaPush S Pushes the correct version of WWA/WarnGen products to adjacent offices. WWA coordination does not work with the pre-patch R4.3.1 software.
- C wwastmt_srv S Corrects the format of SLS clearing statements
S Adds a blank line between the UGC line and the headline.
S Corrects the format of NOW products for the CRS ("..." headline no longer required; county list removed from CRS product).

During the R4.3.1 installation, "wwa.bat" has the +s attribute set. This has been known to cause problems at some offices with regards to launching "wwa" from the root menu. The installation script will remove the +s attribute on "wwa.bat."

- NOTE:**
1. After a R4.3.1 upgrade, sites must install this patch as soon as possible.
 2. This patch replaces PN1 installed at ER sites.
 3. **Known Issue** - There are problems with clearing and canceling SLS products in WWA. In particular, the coordination of these products may cause problems on neighboring WFOs' WWA displays.
 4. The WWA executables in the patch are only compatible with R4.3.1. **Do not install this patch unless you have upgraded your system to R4.3.1.**
 5. The patch introduces new capabilities not available in R4.3.3. It must therefore be reinstalled after a R4.3.3 upgrade. Follow the instructions provided in part C.

This software patch modification note is divided into procedure parts A, B, and C:

- C Part A, download the "wwa431new.tar.Z" file, unbundle, and install the patch.
- C Part B, partly or completely uninstall the patch.
- C Part C, reinstalling the patch after a R4.3.3 upgrade.

The patch installation script will perform the following functions:

- C Original executables will be backed up as "/awips/adapt/ifps/bin/name.orig" on ds1, where name is the name of the executable.
- C The patch log ("/awips/PatchLog") on ds1 will be automatically updated.

PROCEDURE

A. WWA Software Installation Procedure

1. At a workstation, open a telnet window and log in as the **awipsusr**. Log in to ds1 as **root** by typing:

```
rlogin ds1 -l root
```

2. Change to the "/awips/adapt" directory by typing:

```
cd /awips/adapt
```

3. Connect to the NOAA1 ftp server by typing:

```
ftp 165.92.30.15
```

4. Once connected, log in as **anonymous** user.

5. Get the “wwa431new.tar.Z” file by typing:

```
binary
hash
cd /pub
get wwa431new.tar.Z
bye
```

6. Unbundle the “wwa431new.tar.Z” file to get two script files (“install_wwa431.sh” and “RC.sh”) and three executables (“wwa”, “wwaPush”, and “wwastmt_srv”) by typing:

```
uncompress wwa431new.tar.Z
tar xvf wwa431new.tar
```

NOTE: It is **not** necessary to call the NCF before proceeding to the next step.

7. Stop the old “wwastmt_srv” process by typing:

```
rlogin as1
ps -ef |grep wwastmt_srv
kill <pid>    (where <pid> is the process ID of “wwastmt_srv”. NOTE: Exit all
              WWA programs before killing the “wwastmt_srv” process)
exit
```

8. Install the new WWA software on ds1 and update the patch log file (“/awips/PatchLog”) by typing:

```
./RC.sh -i PatchID.431.69 install_wwa431.sh
```

NOTE: The “PatchID.431.69” file contains the patch ID and is required to update the patch log file.

9. Respond to the following questions as indicated:

- a. You can view additional entries in patch log for TDL.
Would you like to do this? [y/n]
Action: To proceed, please enter: **n** and a carriage return.
- b. Are you ready to run the patch install/uninstall script? [y/n]
Action: To proceed, please enter: **y** and a carriage return.
- c. Do you wish to proceed with the patch log update? [y/n]
Action: To proceed, please enter: **y** and a carriage return.
- d. Please enter your name [Example: John Doe]:
Action: enter your name.
- e. Please enter your telephone number (with area code and ext):
Action: enter your phone number.
- f. Do you wish to update patch log with this line? [y/n]
Action: To complete the patch log update, enter: **y** and a carriage return.

10. Delete the tar file and install script ("install_wwa431.sh") by typing:

```
rm wwa431new.tar  
rm install_wwa431.sh
```

NOTE: The "RC.sh" script should **not** be deleted. It may be needed in Part B and/or C.

11. Restart the "wwastmt_srv" process by typing:

```
rlogin as1  
su - ifps  
/awips/adapt/ifps/bin/start_servers ccc (replace "ccc" with the WFO id)
```

12. Exit the ifps and root logins and close the telnet window by typing:

```
exit  
exit  
exit  
exit
```

13. Report the completed modification on a WS Form A-26 as outlined in the "Reporting Modification" section at the end of this software note.

This completes the patch installation procedure.

B. Patch Uninstall Procedure

Use this part of the procedure **only** if part/all of the patch must be **uninstalled** and replaced with the original executable(s).

1. Open a telnet window.
2. Log in as **root** by typing:

```
rlogin ds1 -l root
```

NOTE: To uninstall a specific components of this patch, perform steps 3, 4, and/or 5. To uninstall the entire patch and update the patch log file, complete steps 3 - 6.

3. To remove the new version of "wwa" by typing:

```
cd /awips/adapt/ifps/bin
mv ./wwa.orig ./wwa
chown ifps:awips ./wwa
chmod 777 ./wwa
chmod +s ./wwa
```

4. To remove the new version of "wwaPush" type:

```
cd /awips/fixa/bin
mv ./wwaPush.orig ./wwaPush
chown fixa:fxalpha ./wwaPush
chmod 555 ./wwaPush
```

5. To remove the new version of “wwastmt_srv” type:

```
rlogin as1
su - ifps
ps -ef |grep wwastmt_srv
kill <pid>    (where <pid> is the process ID of “wwastmt_srv.” NOTE: Exit all
               WWA programs before killing the “wwastmt_srv” process

cd /awips/adapt/ifps/bin
mv ./wwastmt_srv.orig ./wwastmt_srv
chown ifps:awips ./wwastmt_srv
chmod 777 ./wwastmt_srv
chmod +s ./wwastmt_srv
./start_servers ccc (ccc = WFO id)
exit
exit
```

6. Perform this step only if steps 3 - 5 are complete:

```
cd /awips/adapt
./RC.sh -r PatchID.431.69
```

7. Respond to the following questions as indicated:

- a. Do you wish to continue? [y/n]
Action: To proceed, please enter: **y** and a carriage return.
- b. You can view additional entries in the patch log for TDL. Would you like to do this?
[y/n]
Action: To proceed, please enter: **n** and a carriage return.
- c. Do you wish to proceed with the patch log update? [y/n]
Action: To proceed, please enter: **y** and a carriage return.
- d. Please enter your name [Example: John Doe]:
Action: enter your name.
- e. Please enter your telephone number (with area code and ext):
Action: enter your phone number.
- f. Do you wish to update patch log with this line? [y/n]
Action: To complete the patch log update, enter: **y** and a carriage return.

```
exit
exit
```

C. Patch Reinstallation Following a R4.3.3 Upgrade

The patch introduces new capabilities not available in R4.3.3. Perform the steps below to reinstall portions of the patch after a R4.3.3 upgrade.

1. At a workstation, open a telnet window log in as **root**, and continue as follows:

```
rlogin ds1 -l root
cd /awips/adapt
./RC.sh -a PatchID.431.69
```

2. Respond to the following questions as indicated:

- a. Do you wish to continue? [y/n]

Action: To proceed, please enter: **y** and a carriage return.

- b. You can view additional entries in the patch log for TDL. Would you like to do this? [y/n]

Action: To proceed, please enter: **n** and a carriage return.

- c. Do you wish to proceed with the patch log update? [y/n]

Action: To proceed, please enter: **y** and a carriage return.

- d. Please enter your name [Example: John Doe]:

Action: enter your name.

- e. Please enter your telephone number (with area code and ext):

Action: enter your phone number.

- f. Do you wish to update patch log with this line? [y/n]

Action: To complete the patch log update, enter: **y** and a carriage return.

3. Log in to as1 and perform the following steps by typing:

```
rlogin as1
cd /awips/adapt/ifps/bin
cp -p ./wwa.new ./wwa
su - ifps
ps -ef |grep wwastmt_srv
kill <pid> (where <pid> is the process ID of "wwastmt_srv". NOTE: Exit all
           WWA programs before killing the "wwastmt_srv" process.)

cd /awips/adapt/ifps/bin
cp -p ./wwastmt_srv.new ./wwastmt_srv
./start_servers ccc (ccc = WFO id)

exit
exit
```

NOTE: It is not required to reinstall the patch version of "wwaPush" after a R4.3.3 upgrade.

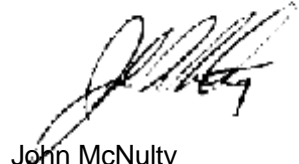
REPORT MODIFICATION

Report the completed modification on a WS Form A-26 according to instructions in Engineering Handbook 4 (EHB-4), Part 2, and in EHB-4, Appendix H. A sample A-26 form is attached. As an additional guide, refer to the table below.

Block #	Block Type	Information
5	Description	Perform Modification I.A.W. Software Patch Modification Note 6
7	Equipment Code	AWIPS
8	Serial Number	001
15	Comments	Upgrade System Software with patch P431_TDL_A100069
17a	Mod. No.	SP6

TECHNICAL SUPPORT

For questions or problems regarding these installation instructions or running the WWA program, please contact Jim Calkins of the AWIPS Site Support Team at 301-713-0920 ext 120.

A handwritten signature in black ink, appearing to read 'J. McNulty', is positioned above the printed name.

John McNulty
Chief, Engineering Division

Attachment

ATTACHMENT

WS FORM A-26 (4/94)		WS FORM A -26 (4/94)				U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL WEATHER SERVICE				Document Number G 49978			
General Information		1. Open Date 6 / 01 / 00		Time 0900		2. Initials JMM		3. Response Priority (check one) <input type="radio"/> Immediate <input type="radio"/> Low <input type="radio"/> Routine <input checked="" type="checkbox"/> Not Applicable		4. Close Date 6 / 01 / 00		Time 1000	
5. Description Perform Modification I.A.W. AWIPS Software Patch Mod Note 6													
Equipment Information		6. Station ID CTP		7. Equipment Code AWIPS		8. Serial Number 001		9. TM M		10. AT M		11. How Mal. 999	
12. EQUIPMENT OPERATIONAL STATUS TIMES		a. Fully Operational <input type="text"/>		b. Logistics Delay <input type="text"/>		Partly Operational		c. All Other <input type="text"/>		d. Logistics Delay <input type="text"/>		Not Operational e. All Other <input type="text"/>	
13. Parts Failure Information												14. Work Load Information	
Block #	a. ASN	b. NSN	c. TM	d. AT	e. How Mal.	f. Qty.	g. Maint. Hrs.	Type	Staff Hrs.				
1								a. Routine					
2								b. Non-routine					
3								c. Travel					
4								d. Misc.	1:00				
5								e. Overtime					
Miscellaneous Information		15. Maintenance Comments Update AWIPS System software with WWA executables Patch (number P431_TDL_A100069, RC_APO69_Amend)									16. Initials JMM		
17. SPECIAL PURPOSE REPORTING		a. Mod. No. SP6		b. Mod./Act./Deact.Date 6/01/00		c.		d.		e.			
18. CONFIGURATION MGMT. REPORTING (use as directed)		ASN		Vendor Part Number (New Part)				Serial Number (Old Part)		Serial Number (New Part)			